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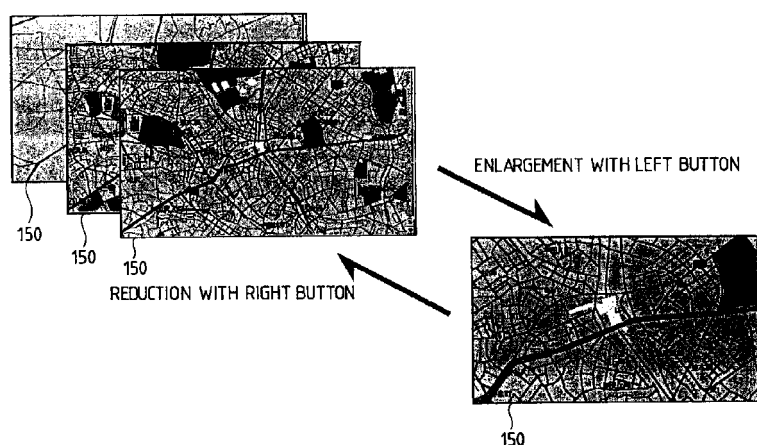
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(54) **Digital map display zooming method and device**

(57) In a digital map display zooming method for enlarging and reducing a displayed portion of a digital map as map information in digital form within a display screen, continuous enlarging operation and continuous reducing operation of the displayed portion of the digital

map within the display screen are designated by operating the first designating part and the second designating part of a pointing device, respectively.

FIG. 7



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EUROPEAN SEARCH REPORT

Application Number
EP 98 10 9900

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	DE 296 21 338 U (PRIMAX ELECTRONICS LTD) 6 February 1997 (1997-02-06) * page 4, line 7 - line 14; figure 1 * * page 8, line 33 - line 36; figure 3 * ---	1,3-5	G06F3/033 G01C21/20
X	WO 96 14633 A (BARON MOTION COMMUNICATION INC) 17 May 1996 (1996-05-17) * page 10, line 2 - last line * * page 11, line 15 - last line; figure 1B * * page 13, line 17 - line 22 * * page 15, line 18 - line 28; figures 8A-8D * ---	1,3-5	
A	US 5 032 989 A (TORNETTA MARK A) 16 July 1991 (1991-07-16) * column 9, line 34 - line 57; figures 3A,3B * * column 12, line 5 - line 12 * ---	1-5	
A	RINK, J.: "Von A nach B mit CD" CT MAGAZIN FÜR COMPUTER TECHNIK, February 1997 (1997-02), pages 176-197, XP002131801 * the whole document * ---	1-5	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	"Aldus Digital Darkroom User Manual" February 1990 (1990-02) , ALDUS XP002131800 * page 123 - page 124 * -----	2	G06K G06F G01C G09B G06T
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 3 March 2000	Examiner Davenport, K
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 10 9900

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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03-03-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 29621338 U	06-02-1997	DE 19648487 C US 5883619 A	10-06-1998 16-03-1999
WO 9614633 A	17-05-1996	AU 4144796 A	31-05-1996
US 5032989 A	16-07-1991	US 4870576 A	26-09-1989